

April 9, 2012

NOTICE

To: All Takers of Contract Documents for the Subject Project
From: **FST ENGINEERS, Inc.**
Subject: Suffolk County Department of Public Works
Sanitation Division
SD No. 3 Bergen Point Wastewater Treatment Plant
Screening Room Odor Control
Capital Project No. 8170 - **REBID**

We are enclosing **Addendum No. 2** to all who have taken out Contract Documents for the above mentioned Contract. Addendum No. 2 includes:

1. General information, clarifications, answers to pertinent and properly submitted questions.
2. Modifications to the PROJECT MANUAL.
3. Modifications to the Drawings.
4. Major changes include:
 - a. Relocation of the eye wash/shower hot water heater to the room under the MCC room (LOWER PUMP ROOM).
 - b. Modification of exhaust fans/stacks EF-28 and EF-29. Stacks/supports are being deleted.
 - c. Relocation of the Screening area heating system pumps to the room under the MCC room (LOWER PUMP ROOM) and modification of the system to incorporate a closed loop glycol heating system.

GENERAL

1. Locks and Keysets. All locks provided on this project shall have keysets that have been coordinated with the County key codes.
2. Multiple Bids. If a Contractor wishes to bid on more than one Contract, the bid package may be reproduced. Separate bids for each contract shall be submitted.
3. Liquidated damages (LDs). LDs apply to each of the three contracts at the discretion of the Owner, i.e.: - If the work of one prime contractor is delayed due to the work of another prime contractor, the County may assess LDs to the Contractor at fault. If the same Prime contractor is conducting the work on 2 or more contracts, however, assessment of LDs will apply to each of those contracts.

PROJECT MANUAL

TABLE OF CONTENTS

In DIVISION I, following 01040 – Coordination, insert:

“01140 – Site Safety and Work Conditions 1 – 5”

Also - following 01300 – Construction Schedule, insert:

“01325 – Construction Photographs 1 – 2”

Section 01010 – SUMMARY OF WORK

On page 00100-10, paragraph 1.09, A. 1. Change “3:00” to “3:30”.

Section 01140 – SITE SAFETY AND WORK CONDITIONS

Add this NEW section (Attachment A) following section 01040.

Section 01325 – CONSTRUCTION PHOTOGRAPHS

Add this NEW section (Attachment B) following section 01325.

Section 01590 – TEMPORARY FIELD FACILITIES

Page 01590-2, paragraph 2.01, A. Add the following subparagraph:

- “4. Facilities shall include adequate sanitary facilities for all of Contractor’s work staff, including subcontractors. Bottled water shall, for the duration of the contract be provided for all contractor’s work staff, including an adequately sized hot and cold water dispenser and disposable cups.”

Section 02200 – EARTHWORK

On page 00200-7, paragraph 3.01, F., 1. Add the following subparagraph:

- “i. All systems for support of excavation shall be detailed and designed by a professional engineer registered in the State of New York, stamped and signed and submitted in accordance with the requirements of Section 01300.”

On page 00200-8, paragraph 3.01, G., 1. Add the following subparagraphs:

- “a. For buoyancy calculations, the contractor shall assume the worst conditions of ground saturation to grade elevation.

- b. The contractor shall assume that the groundwater elevation below the containment structure is at elevation 7.0 and shall provide for (in his bid and in his dewatering plan) lowering of the groundwater table to an elevation of 2.0' below the bottom of excavation, such that proper compaction and testing thereof can be accomplished."

Section 02600 – EXTERIOR PIPING

Page 02600-7, paragraph 2.07. Delete the thickness classifications shown. All ductile iron pipe shall be minimum thickness class 53.

Page 02600-9. At the bottom of the page, insert the following paragraph:

"2.10 POLYETHYLENE WRAP FOR CORROSION PROTECTION

- A. The ductile iron outer containment drain pipe and fittings shall be wrapped in polyethylene for corrosion protection.
1. Polyethylene sleeve encasement shall conform to ANSI/AWWA C105/A21.5 blue tubular 8 mil thick high-density, cross-laminated polyethylene film.
 2. Polyethylene encasement shall be installed in accordance with AWWA C-105, Method A."

Section 03300 – CONCRETE

On page 03300-4, paragraph 2.05, A. Add the following subparagraph:

- "1. The cost of all testing shall be reimbursed to the Contractor from the allowance included in his bid. See Bid Form.

Section 05500 – MISCELLANEOUS METALS

On page 00500-7, following paragraph 2.01, K., insert the following paragraph:

- "L. Access Hatch for containment sump. The access hatch for the containment sump shall be designed to prevent the entry of water from outside the sump from setting off the leak detection sensor. The hatch shall meet the following:
1. Cover shall be 1/8" aluminum diamond-pattern tread plate reinforced for a minimum of 100 psf live load.
 2. Frame shall be 3/16 x 3" x 3" aluminum angle frame with internal mounting flange and 7/16" anchor holes.

3. Gaskets for both the mounting flange and the cover shall be EPDM. Cover gasket shall be permanently adhered.
4. Hinges shall be heavy duty pintle hinges with 3/8" 316 SS hinge pins.
5. Latch shall consist of a type 316 slam lock with fixed interior handle and removable exterior turn/lift handle. Full welded exterior padlock hasp shall be provided with lock. Lockset key shall be coordinated with the County key codes.
6. Aluminum parts shall have mill finish. All fasteners and hardware shall be 316 SS.

Section 11345 - CHEMICAL STORAGE TANKS

On page 11345-3, add the following paragraph:

"1.07 TANK REGISTRY AND APPROVALS

- A. The contractor shall be responsible for compliance with all local, State and Federal requirements for the chemical storage tanks, including registry and compliance with the Suffolk County Health Department permit included in the Appendix to the Project Manual."

On Page 11345-9, paragraph 2.04, I, add the following subparagraph:

- "3. Harness shall be Miller Dura Flex Harness, model #E650-58/UGN, universal size, or approved equal. Five (5) harnesses shall be provided."

Section 11552 - MULTIPLE-STAGE CHEMICAL PACKED-BED SCRUBBER

On page 11552-22, after paragraph 3.03, B., 1. Add the following:

- "2. The Contractor shall arrange and pay for the initial filling of both chemical storage tanks. Following startup, performance testing and successful trial operation, the chemical tanks shall be re-filled, or with Owner permission, the value of chemicals consumed by the Contractor, up through Owner acceptance, shall be credited to the Contract."

Section 15060 - PROCESS PIPING, VALVES AND GATES

On page 15060-4, paragraph 2.02, E. In the third line after "bolt", insert "stainless".

On page 15060-8, paragraph 2.11, Delete "hot dipped ... pipe." and replace with "316 stainless steel. Waterstops, if needed, shall be welded on both sides."

On page 15060-9, paragraph 2.14. In the fourth line after "rustproof" insert "stainless".

Section 15250 – MECHANICAL INSULATION

On page 15250-2, paragraph 3.02, A. In the second line, delete “corrosion resistant” and replace with “minimum 316 stainless steel”.

Section 15412 - PLUMBING

On page 15412-4, paragraph 2.02, A. Delete “hot dipped galvanized” and replace with “316 stainless steel”.

On page 15412-8, paragraph 3.01, G., 2. Delete “wrought iron or malleable iron” and replace with “316 stainless steel”.

Section 15500 – ODOR CONTROL PIPING, VALVES AND APPURTENANCES

On page 15500-5, paragraph, 2.02, A. Delete “hot dipped galvanized ... pipe” and replace with “316 stainless steel”.

On page 15500-5, paragraph 2.03, A. In the 6th line, add “316” before “stainless steel”.

Section 16013 - ELECTRICAL

On page 16010-4, paragraph G, 8th line, replace “galvanized sheet steel or PVC” with “316 stainless steel”.

On page 16013-13, paragraph 2, Q., a. In the second line, replace “90” with “60”.

On page 16013-18, paragraph L. After the first paragraph, insert “Megger” before “Wire and Cable Testing”.

DRAWINGS

General. Wherever the ladders and/or ladder details for the chemical storage tanks are shown, they shall be modified in concept and view to include a safety cage feature as specified in Section 06500.

DRAWING A-2

1. On the ADMINISTRATION-MAINTENANCE BUILDING PARTIAL ROOF PLAN, delete details and references to the 44” FRP stacks (2), supports and guy wires

DRAWING C-2

1. For the 4” PVC DRAIN, add the following note: “Provide a minimum pitch/slope of 2% and 5’ minimum cover.”
2. With reference to the ROUTING OF THE SCADA WIRING, see ATTACHMENT C (2

pages). The control conduit/SCADA wiring is to be terminated at cabinet panel BC-1. Also - the actual penetration of the 3" power and 1" control conduits shall be determined in the field.

DRAWING A-2

1. OPENING INFIL DETAIL. All components, including support angles, inserts, anchors, fasteners and deck shall be 316 stainless steel.

DRAWING S-1

2. FOUNDATION NOTES. Note #9 should refer to section 02200. There is no section 02210.
3. STRUCTURAL STEEL NOTES. Note #4 - anchor bolt material shall be stainless steel.
4. CONCRETE NOTES. Note #3, after "GRADE 60", insert "EPOXY COATED"

DRAWING S-3

1. In SCREENING ROOM FLOOR ELEV. 12.00, the 4" pad for the hot water tank is being relocated to the LOWER PUMP ROOM FLOOR. See Attachment D.
2. In SUB-BASEMENT #1 FLOOR ELEV. -4.75, disregard the note "1 1/2" ALUMINUM GRATING (250PSF LOADING TYP." This grating is existing and neither the material, nor the loading capacity is confirmed to be as indicated.

DRAWING S-4

1. Add the following note at the bottom of the sheet.

"4. SUBMISSION OF ALL STRUCTURAL SUPPORTS SHALL BE STAMPED AND SIGNED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF NY."
2. On the plan for the SCREENING ROOM ROOF ELEV. 29.92, delete the supports, details and guy wires associated with the 44" diameter FRP stacks (2). The stacks are being deleted.

DRAWING M-1

1. In the PLAN, on the left side, delete symbol and reference to "CATHODIC PROTECTION". Containment pipe is to be wrapped in polyethylene, as specified in Section 02600, as amended by this addendum.
2. Also in the PLAN, at the CLEANOUT, add the following:

"The cleanout shall be of the same size and material as the drain. The riser for the cleanout shall terminate at grade and shall be fitted with a threaded cap. The riser assembly shall be protected by an oversized cast iron roadbox with "DRAIN" cast into the cover."

3. In the ELEVATION, at the lower right, reference to the BILCO hatch model J-5AL shall be deleted. Contractor shall refer to specifications Section 05500, as modified by this addendum.
4. Also, Reference elevations of footings shall be deleted. Elevations on S drawings shall apply.

As stated in Addendum No. 1, the bid opening date is Thursday April 19, 2012 at 11:00 am, UNCHANGED by this Addendum No. 2.

Very truly yours,

FST ENGINEERS, Inc.

By


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Attachments

- A Section 01140 – SITE SAFETY AND WORK CONDITIONS
- B Section 01325 – CONSTRUCTION PHOTOGRAPHS
- C Location for SCADA control conduit/wiring termination

SECTION 01140 - SITE SAFETY AND WORK CONDITIONS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section is intended to supplement, clarify and/or amend other information in this Project Manual in regard to the provisions and requirements for protecting the safety and health of the general public, staff, visitors and workforce while the work of this project is being conducted at the Bergen Point WWTP. Wherever there is a contradiction between the requirements of this section and other sections of this project manual, posted site policies, code and/or local Health Department Rules and Regulations, the most stringent requirement shall apply.
- B. Definitions. The following terms are utilized in this and other sections and are defined as follows:
 - 1. "Contractor" shall refer to each of the firms with whom the County has an executed contract. The Contractor is responsible for any of the firms, vendors, subcontractors with whom he is engaged (whether contractually or not) to provide services and/or to furnish equipment or materials for this project.
 - 2. "Employee" shall refer to and include all superintendents, supervisors, foreman, workers, drivers, suppliers, etc, of each Prime Contractor including all subcontractors on site for this contract with the County.

1.02 RELATED REFERENCES

- A. INSTRUCTIONS TO BIDDERS
- B. GENERAL CONDITIONS
- C. DIVISION I - GENERAL REQUIREMENTS - SANITATION
- D. Section 01010 - SUMMARY OF WORK
- E. Section 01040 - COORDINATION
- F. Section 01590 - TEMPORARY FIELD FACILITIES

1.03 EMERGENCY EVACUATION PLANS FOR SCSD#3 AT BERGEN POINT

- A. In order to comply with the Bergen Point Emergency Evacuation Plan, each Prime Contractor shall follow and be responsible for implementing the following

procedures:

1. Contractor's Designee/Superintendent shall be required to report to the County's Designated Representative at the start of each day of work at the site.
2. Contractor's Designee/Superintendent shall provide the names of all employees (including all subcontractor employees) on the site each day before the start of work. Names shall be provided on the Daily Sign-In sheet provided by the County's Designated Representative. **A sample sign-in sheet is included at the end of this section and supersedes the sample on page GC-22.**
3. Any additional employees arriving after the start of work shall sign-in before beginning their work. The Contractor's Designee/Superintendent shall be responsible for compliance and that all daily sign-ins for each employee are complete and accurate.
4. Contractor's Designee/Superintendent shall instruct all members of their work crew that in the event of the emergency action alarm being activated they are to follow the direction of County personnel and report to the designated Emergency staging area as soon as possible.
5. Once at the staging area the Contractor's Designee/Superintendent shall report to the County Evacuation Coordinator to report on their employees. All employees shall be accounted for as present or absent. The name, last known location, and job of all absent employees shall be included in the report to the County Evacuation Coordinator.
6. All Contractors and their employees shall remain at the staging area until given further directions by the Evacuation Coordinator.
7. Under no circumstances are the Contractor's employees to leave the job site or re-enter the work area without prior direction by the Evacuation Coordinator.

1.04

FIRST AID FACILITIES:

- A. Contractor's Responsibilities: The Contractor shall be responsible for providing all first aid for its workers, including follow-on care for medical treatment other than emergency service.
- B. Ambulance Service: For all emergencies and for emergency ambulance transport from the site to a hospital or other medical facility the Contractor shall be responsible for making the service call.

- C. First Aid Training: The Contractor shall have at least one employee on-site with current and certified First Aid training, and shall furnish first aid kits with emergency equipment providing for the risks involved in the Contractor's operation at the site. A list of trained and certified personnel shall be maintained with a copy submitted monthly to the Owner.

1.05

SAFETY

- A. General: The Contractor, Subcontractors, employees, agents and invitees while on site shall comply with the Bergen Point WWTP general safety rules and regulations, as well as with all applicable local, state and federal safety laws, rules and regulations. No later than the fifth working day of each month, Contractor shall submit a monthly safety report providing statistical information on hours worked, number of accidents and injuries, and amount of time lost due to injuries.
1. The Contractor shall provide protective equipment for all persons including but not limited to its employees and employees of other contractors or Subcontractors; members of the public; and employees, agents, and representatives of the Owner and regulatory agencies that may be on or about the work areas.
 2. The Contractor shall provide protection for all Owner's property including but not limited to structures, pipes, and utilities, above and below ground.
 3. No work shall be performed until the appropriate Work Requests and Lock-Outs are approved by the Owner's Project Manager. The Work Request system provides a mechanism to advise plant staff of a Contractor's work activities. The Lockout system is a safety procedure to prevent unintended equipment activation.
 4. The Contractor shall maintain clean work areas, have readily accessible first aid kits with emergency equipment providing for the risks involved in the Contractor's work, and have Underwriter's Laboratories approved fire extinguishers on-hand. The Contractor shall provide all this equipment.
 5. Smoking is not permitted at the Bergen Point Wastewater Treatment Plant.
- B. Safety Program: The Prime Contractors shall develop and implement a safety program. A Health and Safety Plan (H&SP) shall be submitted to the Owner within thirty days of receipt of the Notice to Proceed for Owner review and compliance.
- C. Safety Officer: The Contractor shall have a Site Safety and Health Officer (SSHO) whose sole duty while on the job site is Safety and Accident Prevention and shall perform a minimum of one visit per day, two or more days each week, during site construction. Work site inspections shall last at least 2 hours. The

SSHO shall notify the Owner's Project Manager of the site visit time at least one hour prior to each site visit unless otherwise approved in writing.

1. The SSHO shall be charged with the responsibility of on site safety coordination and audit services, and shall have the authority to correct unsafe conditions and unsafe practices. The SSHO shall also have the authority to stop any portion of the Work where there is a threat to life or property.
2. The Contractor shall submit to the Owner a copy of the proposed SSHO qualifications/resume for approval. The proposed SSHO shall have a minimum of at least three (3) years of construction safety experience within the last six years. He/she shall be OSHA Confined Space trained, and shall have past experience with OSHA laws and regulations, hazards pertinent to this contract, lockout/ tagout procedures, and emergency response procedures. The submittal of qualifications must provide sufficient information to demonstrate that the SSHO has the experience and qualifications above.
3. The qualifications of the SSHO shall include:
 - a. Knowledge of Federal, State and County safety and health regulations.
 - b. Training in personal and respiratory protective equipment program implementation and in the proper use of air monitoring instruments, air sampling methods and procedures.
 - c. Certified on first aid and CPR by a recognized approved organization such as the American Red Cross or American Heart Association.
 - d. The name, qualifications (education summary and documentation) and Work experience of the SSHO shall be submitted to the Owner prior to submittal of the H&SP.

D. Equipment: The Contractor shall provide and maintain all necessary safety equipment including protective clothing, respirators, monitoring instruments, barriers, signs, lights, and fire prevention and fire fighting equipment, and shall take such other action as is required to fulfill his obligations under this Contract.

1. Contractor and Subcontractor personnel working on-site shall at all times be required to use basic protective equipment consisting of suitable work clothing and hard hats, steel-toed and steel-shank safety boots, and any other protective equipment as dictated by weather, materials encountered and tasks performed.

- E. Fire Alarm System Bagging: A Fire Alarm System Bagging Permit is required for all Work that might trigger an alarm signal. Bagging is allowed with two days prior approval and is restricted to the week-day hours of 7:00 am to 3:30 pm.
- F. Fire Fighting Equipment: The Contractor shall take all precautions necessary to prevent fires including but not limited to grounding of equipment, proper ventilation or work and storage areas, proper safety equipment, keeping work and storage areas clean.
 - 1. The Contractor shall provide portable fire extinguishers, each of a type appropriate for the fire hazards of the work area to protect Contractor's vehicles and equipment. The Contractor shall submit a list of the fire extinguishers placed in each work area to the Owner for Owner review. Fire hoses and equipment provided as part of this contract or by the Owner shall not be used for any other reason than fighting fires and must not be removed from their locations without prior approval of Owner.
- G. Operation of Plant Equipment: Equipment, valves, switches and controls in the Owner's operating plant shall not be operated by Contractor's or Subcontractor's personnel. If the construction activities require the operation or shutdown of any of these facilities, Contractor shall arrange through the Owner for this to be performed by operating plant personnel. Prior to performing work within any portion of the operating plant the Contractor shall complete and submit through the Owner a work request form.

NOTE: A SAMPLE SIGN IN FORM FOLLOWS THIS PAGE AND CONSTITUTES THE

**** END OF SECTION ****

Date 1/1

Prime Contractor _____
Project Number _____
Project Name/Location _____

All Employees must sign Sign Themselves in Personally

Representative

[illegible]

SECTION 01325 - CONSTRUCTION PHOTOGRAPHS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This Section includes the requirements for photography throughout the project, to be conducted by each of the Prime Contractors.

1.02 PHOTOGRAPHY

- A. Provide color photographs of the site and the construction throughout the progress of the work produced by a professional photographer acceptable to the Owner who is regularly engaged. Photographs shall be taken and delivered to the Owner for each month of the Contract period. Photographs taken by the Contractor will not be accepted.
- B. Progress Photographs: Provide construction photographs showing the progress of the work and the completed work that remains exposed. Owner will designate the locations and desired view. Indoor and outdoor photos will be required, as appropriate to illustrate the work performed. The number of exposures required shall be twelve (12) per month including the period between the issuance of the substantial and final certificates. Two (2) duplicate sets shall be provided per month.
- C. The photographer shall be available at the project site within 24 hours from Owner's verbal notice.
- D. Prints: Deliver photographs to Owner within seven (7) working days after being taken.
- E. Annotate the following on the back side of each print:
 - 1. Project name and number.
 - 2. Photographer's identification, address, and telephone number.
 - 3. Date and time picture was taken.
 - 4. Location of picture relative to a specific location on the site, (for example, "10 ft. from main building").
 - 5. Direction in which camera was aimed.

PART 2 PRODUCTS

2.01 PRINTS

- A. Paper Surface (Color): Smooth, glossy.
- B. Contrast (Color): High.
- C. Size: 5 x 7 inch
- D. Advanced Photo System (APS) film by Kodak or equal shall be used.

- E. The prints shall be protected by commercially purchased album pages suitable for a 3 ring binder. Deliver to the Engineer prints placed in the protector page. The protector page shall be specially designed to hold APS film. One (1) print per slot. Do not cover the annotations on the back side of the photo.
- F. Panoramic photographs shall be taken at appropriate locations.
- G. Bind each set of photographs in a large capacity binder with plastic cover front and back as manufactured by National or equal. Each binder shall be sequentially numbered and show the name of the project on the binder and front cover using white on black ½ inch laminated lettering tape by Brother or equal. Each set shall be provided with an index of photographs and shall be in a form acceptable to the Owner.

2.02 COMPACT DISKS

- A. Deliver CDs in a plastic CD holder cover. Provide typed table of contents for each set of prints for each submission.

PART 3 EXECUTION

3.01 TECHNIQUE

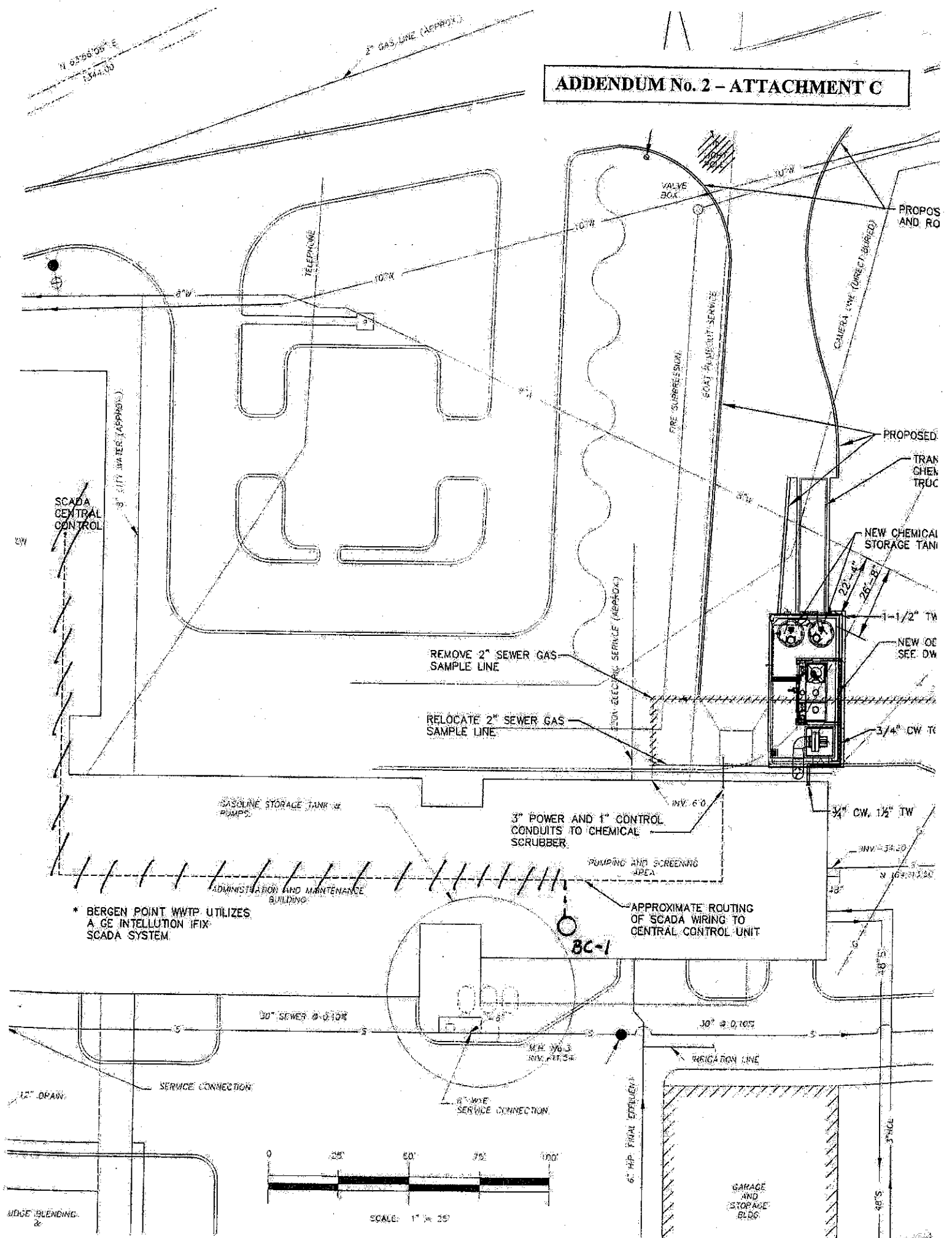
- A. Provide factual presentation. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field, and minimum distortion.

3.02 SUBMITTALS

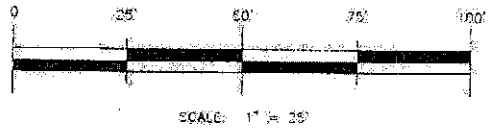
- A. Deliver prints within seven (7) working days after exposure with transmittal letter in accordance with the requirements of Section 01330.

**** END OF SECTION ****

ADDENDUM No. 2 - ATTACHMENT C



* BERGEN POINT WWTP UTILIZES
A GE INTELLUTION IFIX
SCADA SYSTEM.



GARAGE
AND
STORAGE
BLDG

